Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive

Boring Log

Boring Number MW-5S

1 Of 1 Sheet Equipment: Air Rotary

Sampling Method: N/A Quakertown, Pennsylvania Top of Casing Elevation: 533.88 Date Started: 2/25/99 Depth of Boring: 15' Project Manager: Ron Carper Logged By: James Miller Date Finished: 2/26/99 Water Level: Driller: Rick Empson Ground Surface Elevation: 534.23' Drilling Contractor: Advanced Drilling, Inc. Classification of Material Sample Depth (ft) Sample Number f-fine f/m-fine to medium a.-and (20-35%) Blow Count PID (ppm) Moisture s.-some (20-35%) f/c-fine to coarse Recovery m-medium Details m/c-medium to coarse 1.-little (10-20%) (ft) c-coarse All capital letters-50%+ t.-trace (1-10%) Flushmount manhole N/A N/A N/A 0'-7': Red brown clayey SILT 2'x2' concrete pad N/A N/A I Locking expansion cap 0.5'-1': cement/ 2 betonite grout 0.5'-3': 2" diameter, Schedule 40 PVC riser 3 1'-2': bentonite pellet seal 2'-15': #2 sand 5 3'-15': 2" diameter, 0.020" slot PVC screen 7'-9': Red weathered SHALE and SILTSTONE bedrock 7-15': Red SHALE and SILTSTONE bedrock 10 11 12 13 14 15 15': Extent of boring 16 Borehole diameter = 6" 17 18 20 21 22 23 24 25 Well Development: 16 gallons 26 Volume removed: Estimated yield: < 0.25 gallons per minute 27 28



Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive Quakertown, Pennsylvania

Logged By: James Miller Boring Log

Boring Number MW-5D Sheet

1 0f 1 Air Rotary

Equipment: Sampling Method: N/A Date Started: 2/24/99 Depth of Boring: 55'

Topics A more proper a finance proper in the company of the compan					Quario.	town, Penns			10 0 0 00000	Sampling Melnou:	N/A	Tan afficient Elevation	522 9
Depth (b) 2									Date Started: 2/24/99	Depth of Boring:	55'		
Depth (rb)   Fig.   Fig	Prilling C	ontract	or: Advance	d Drilling, Inc		Driller: Se	cott Alb	arella	Date Finished: 2/24/99	Water Level:	19.86'	Ground Surface Elevation:	534.2
N/A		Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	f-fine f/m-fine to medium-medium f/c-fine to coarse c-coarse m/c-medium to co	aand (20-35%) ssome (20-35%) parse 1little (10-20%)			
Estiming well reader of the boundary of the bo												Flushmount manhole	
Well Development: Volume removed: 10 gallons Estimated yield: 0.5 gallons per minute  43'-55': #2 sand  43'-55': 2" diameter, 0.020" slot PVC screen	4 - 6 - 8 - 10 - 12 - 14 - 18 - 20 - 24 - 26 - 30 - 32 - 34 - 36 - 38 - 40 - 42 - 44 - 44 - 44							d .	Existing well retrofitted. 4" casir bentonite scal and grout cleared fi drill rig. New well constructed in	ng removed, sand pack, rom borehole with air rotary n existing borehole with		2'x2' concrete pad Locking expansion cap 1'-41': cement/ bentonite grout  0.5'-7': 2" diameter, Schedule 40 PVC riser	
	50									ı		45'-55': 2" diameter,	- € =
					1	1			Estimated yield: 0.5 gallon	s per minute		1	

Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive

Boring Number MW-6S 1 05 1 Air Rotary

L				Quakert	own, Pennsy	lvania				Sampling Method:	N/A	,	
		Ron Carper			Logged By:	_		Date Started		Depth of Boring:	20'	Top of Casing Elevation:	
Drilling C	ontract	or: Advance	d Drilling, Inc		Driller: Ri	ck Emp	son	Date Finishe		Water Level:	15'	Ground Surface Elevation:	533.42'
Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	f-fine f/m m-medium f/c- c-coarse m/c-	Classification of the to medium fine to coarse medium to coa capital letters:	aand (20-35%) ssome (20-35%) arse 1little (10-20%)		Details  Flushmount manhole	
<u> </u>	N/A	N/A	N/A	N/A	N/A	-	_	0'-7': Red brown cla	iyey SILT			2'x2' concrete pad	
1 - 2 - 3									,,,				
4 -												betonite grout  0.5'-10': 2" diameter,	
6 -								7'-14': Red brown,	weathered SHA	ALE bedrock		Schedule 40 PVC riser	
7 -								14'-20': Red SHAL	E and SILTST	ONE bedrock		6'-8': bentonite pellet seal	
9 _													
11 -												8'-20': #2 sand	
13 _													
14 —								14': Change in drill Water level o	ling tone on 2/26/99: 14.	42' (TOC)		10'-20': 2" diameter, 0.020" slot PVC screen	
16 –			-										
18													
20 -								20': Extent o	of boring				
21 -								Borehole dia	_				
23 <u> </u>													
25								Well Development:					
26 _ 27 _								Volume removed: Estimated yield:	2.5 gallons <0.1 gallon	s per minute			
28													

Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility 35 Penn Am Drive

Boring Log

Boring Number MW-6D 1 0f 1 Equipment: Air Rotary

					town, Pennsy	Ivania						Sampli	ing Method:	N/A	,	
Project M	anager:	Ron Carpe	r		Logged By:		Miller		Date Sta	arted: 2/24/			of Boring:	55'	Top of Casing Elevation	1: 533.04
Drilling C	ontract	or: Advance	d Drilling, Inc		Driller: So	ott Alb	arella		Date Fir	nished: 2/24	/99 }	Yater .	Level:	19.39'	Ground Surface Elevation	r: 533.42'
Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	f-fine m-me c-coa	edium	Classific f/m-fine to f/c-fine to c m/c-medium All capital I	oarse 1 to coars	se	erial aand (20-35%) ssome (20-35%) llittle (10-20%) ttrace (1-10%)		Details  Flushmount manhole	
							_	_								
2 _ 4 _ 6 _ 8 _	N/A	N/A	N/A	N/A	N/A			benton drill ri	nite seal a	and grout clea	ared from eted in ex	n bore xisting	ed, sand pack, thole with air rotary torehole with		2'x2' concrete pad Locking expansion cap 1'-41': cement/ bentonite grout	
10															0.5'-7': 2" diameter, Schedule 40 PVC riser	
20 22 24 26 28 30 32 34																
36 - 38 - 40 - 42 -															41'-43': bentonite pellet seal	
44 _ 46 _ 48 _ 50 _								Well I	Developn	nent:					43'-55': #2 sand 45'-55': 2" diameter,	
52 — 54 — 56 —								Volum	ne remov ated yield	red: 20 g	allons galions p	er mir	nute		0.020" slot PVC screen	
				<u>.                                    </u>			l									



Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility

Boring Number MW-7S

Sheet

1 *0f* 1 Equipment: Air Rotary

Boring Log

				35 Penn Am Drive					Equipment:	Air Rotar	y
					ertown, Pennsylvania				Sampling Method:	N/A	
		Ron Carper			Logged By:			Date Started: 2/26/99	Depth of Boring:	20'	Top of Casing Elevation: 533.38
Drilling (		or: Advanced	Drilling, Inc	1	Driller: Ric	ck Emp	son	Date Finished: 2/26/99 Classification		8'4"	Ground Surface Elevation: 533.65
Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	РІО (ррм)	f-fine f/m-fine to mediu m-medium f/c-fine to coarse c-coarse m/c-medium to co All capital letters	ssome (20-35%) arse Ilittle (10-20%)		Details
											Flushmount manhole
1 _	N/A	N/A	N/A	N/A	N/A			0'-2': 2" asphalt layer w/ gravel su	bbase		2'x2' concrete pad Locking expansion cap
<sup>2</sup> –							,	2'-9': Red brown clayey SILT			1'-3': cement/ bentonite grout
4 5											3'-5': bentonite pellet seal
6 _											0.5'-7': 2" diameter, Schedule 40 PVC riser
8 _								8'4": Groundwater observed enter	ring borehole		
9 -								9'-13': Red weathered SHALE an	d SILTSTONE bedrock		
10											5'-20': #2 sand
11 -											
13									O.T. 1		
14 -								9'-20': Red SHALE and SILTSTO	ONE bedrock		7'-17': 2" diameter, 0.020" slot PVC screen
15 -											
17											
18 -											
19 –											
20 -	-			+				20': Extent of boring			
21 _								Borehole diameter = 6"			
22											
24											
25 _								. Well Development:			
26 _								Volume removed: 14.5 gallo	ns ns per minute		
27 _ 28											



Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive

Quakertown, Pennsylvania

Boring Log

Boring Number MW-7D

Sheet 1 Of 1
Equipment: Air Rotary

Sampling Method: N

		Quakert	own, Pennsy				Sampling Method:	N/A		600.011
t Manager: Ro			Logged By:			Date Started: 2/26/99	Depth of Boring:	55'	Top of Casing Elevation	
g Contractor:	Advanced Drillin	ıg, Inc.	Driller: Ric	k Emps	son	Date Finished: 2/26/99	Water Level:	13.93'	Ground Surface Elevation	: 533.55'
	Number Blow Count	Recovery (%)	Sorting	Moisture	(mqq) (lqqq) u-m	edium f/c-fine to coarse	m aand (20-35%) ssome (20-35%)		Details	
		ĺ			0-00.	All capital letters-	,		Flushmount manhole	
N/A	N/A N/A	A N/A	N/A		0'-2':	2" asphalt layer w/ gravel su	bbase		2'x2' concrete pad	
	1471					Red brown clayey SILT			Locking expansion cap	
									1'-41': cement/ bentonite grout	
					9'-13'	: Red weathered SHALE an	d SILTSTONE bedrock, soft	t.		
									0.5'-7': 2" diameter, Schedule 40 PVC riser	
					9'-13'	: Red SHALE and SILTSTO	)NE bedrock.			
						4': Rock becomes more com Return to soft bedrock as abo				
					32'-3	5': Fractured argillaceous SI	HALE. Water bearing.			
-					35'-4	7': Red SHALE as above.				
					i	Borehole diameter = 6"			41'-43': bentonite pellet seal	
					47'-5	5': · Rock becomes more com	petent.		43'-55': #2 sand	
					Volu	Development: me removed: 35 gallons nated yield: 0.5 gallons	per minute		45'-55': 2" diameter, 0.020" slot PVC screen	
<del></del>						55': Extent of boring				VI principal
1										



Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive Quakertown, Pennsylvania Boring Log

Boring Number MW-8S

Sheet 1 Of 1 Equipment: Air Rotary

Sampling Method: N/A

				Quakert	town, Pennsy	/Ivania	`		Sampling Method:	N/A		
Project M	anager:	Ron Carpe	r		Logged By:	James	Miller	Date Started: 2/25/99	Depth of Boring:	20'	Top of Casing Elevation:	
Drilling C	ontract	or: Advance	d Drilling, Inc		Driller: Ri	ick Emp	oson	Date Finished: 2/25/99	Water Level:	7'	Ground Surface Elevation:	535.49
Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	Classification f-fine t/m-fine to medi m-medium t/c-fine to coarse c-coarse m/c-medium to \( \alpha \) All capital letten	aand (20-35%) ssome (20-35%) parse 1little (10-20%)		Details	
				1		1					Flushmount manhole	
	N/A	N/A	N/A	N/A	N/A	_	<del>                                     </del>	0'-6'; Red brown clayey SILT			2'x2' concrete pad	
1 _	NA	N/A	N/A	N/A	l NA			10-0, Rea blown clayey Sic1			Locking expansion cap	
3											I'-6': cement/	
4											become group	
5											0.5'-10': 2" diameter, Schedule 40 PVC riser	
6 _								6'-9': Red brown, weathered SHA	ALE bedrock			
7 _								Water level on 2/26/99: 7	.19' (TOC)		6'-8': bentonite pellet seal	
8 _								9'-20': Red SHALE and SILTST	ONE bedrock			20023400
10												
11 -											8'-20': #2 sand	
12 -												
13 - 14											10'-20': 2" diameter,	
15								Advance boring to 15', wait 10 m	inutes, trace moisture observ	ęd,	0.020" slot PVC screen	
16												
17 -												
19			i							*	/	
20								Advance boring to 20', wait 20 m	inutes, significant water prod	luced.		
21 -		;						20': Extent of boring  Borehole diameter = 6"				
22												
23 -												
25												
26								Well Development:   Volume removed: 8 gallons   Estimated yield: <0.5 gallo	ns per minute			
27								Estimated yield. ~0.3 gaild	no por minuto			
28 _									·			

Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive Quakertown, Pennsylvania

Boring Log Boring Number MW-8D

1 0f 1 Sheet

Air Rotary Equipment: Sampling Method: N/A

Project M	anager:	Ron Carper		_`	Logged By:	James	Miller	Date Started: 2/24/99 Depth of Boring: 55'	Top of Casing Elevation	
Drilling C	ontract	or: Advance	d Drilling, Inc.		Driller: So	ott Alb:	arella	Date Finished: 2/24/99 Water Level: 21.3	Ground Surface Elevation	n: 534.31'
Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	C-coarse Classification of Material  f-fine Ifm-fine to medium aand (20-35%)  f/c-fine to coarse ssome (20-35%)  m/c-medium to coarse llittle (10-20%)  All capital letters-50%+ L-trace (1-10%)	Details Flushmount manhole	
<u> </u>							<u> </u>			
2 -	N/A	N/A	N/A	N/A	N/A			Existing well retrofitted. 4" casing removed, sand pack, bentonite seal and grout cleared from borehole with air rotary drill rig. New well constructed in existing borehole with 2" diameter PVC. Borehole diameter = 8".	2'x2' concrete pad Locking expansion cap  1'-41': cement/ bentonite grout	ROGERIUM REEDRING
6 _ 8 _ 10 _ 12 _								2° diameter PVC. Borenoic diameter = 5°.	0.5'-7': 2" diameter, Schedule 40 PVC riser	
16 — 18 — 20 — 22 —										
26 _								·		
30 _										
32 - 34 -										
36 _										
40 <u>-</u>									41'-43': bentonite pellet	
44 _									seal	The state of the s
48 ~									43'-55': #2 sand	
50 52 54								Well Development:  Volume removed: 10 gallons  Estimated yield: <0.5 gallons per minute	45'-55': 2" diameter, 0.020" slot PVC screen	
56 -								55': Extent of boring		



Project Number: 2246-021

Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive
Quakertown, Pennsylvania

Boring Log

Boring Number MW-125

Sheet

1 Of 1

Equipment: Air Rotary

Sampling Method: N/A

	E . 4		<b>y</b> :⊕			ennison Fas:	son Rol	l Divis	ion Facility	Sheet	1 0) 1		
						Am Drive				Equipment:	Air Rotary	,	
				Qı	uakerto	wn, Pennsy	lvania			Sampling Method:	N/A		
Project M	anager.	Ron Carper	-			Logged By:	James 1	Miller	Date Started: 3/1/99	Depth of Boring:	15'	Top of Casing Elevation:	
		or: Advance		, Inc.	_	Driller: Ri	_	_	Date Finished: 3/1/99	Water Level:	4'6"	Ground Surface Elevation:	534.93
Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)		Sorting	Moisture	PID (ppm)	Classification f-fine f/m-fine to mediu m-medium f/c-fine to coarse c-coarse m/c-medium to co All capital letters	of Material am aand (20-35%) ssome (20-35%) parse 1little (10-20%)		Details	
i			l	i	- 1							Flushmount manhole	
⊢				<del></del>				_	0'-1': Gravel surface			2'x2' concrete pad	_
	N/A	N/A	N/A	٠ ١ '	N/A	N/A			0-1; Glavei surtace				\$\$\$
1 _			ĺ	- 1	ł							Locking expansion cap	
ı			İ	- 1	- 1				1'-7': Red brown clayey SILT			0.5'-1': cement/	
2												betonite grout	
1 -	1			- 1	- 1							0.5'-3': 4" diameter,	¥ \$
3			1	- 1	- [							Schedule 40 PVC riser	額 [8
I -	i		l	- 1	- 1							1'-2': bentonite pellet	
4			1	J								seal	
-	1		1	- 1	i		ĺ						
5	Į	İ	1	- 1	1		1 1						
			J										
		[		Ì	ı				STATE OF THE PARTY	.dom als		3'-15': #2 sand	
6 ~			l	1	- 1				7'-13': Red weathered SHALE be	edrock		3-13: #2 sand	
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11		ĺ	[	- 1	- 1								
'' -	1		ĺ	- 1	[							4'-14': 2" diameter,	
۱.,	1						i					ł	
12 -	1				- 1							0.020" slot PVC screen	
1	1		l	- 1	- 1		1						¥ 8
13 _	1		ĺ	ĺ	ŀ			1	13'-15': Red SHALE and SILTS	TONE bedrock			
}	ł	ł	i										
14			ł	- 1	ļ								
I -	1	1	ł	- 1	- }								
15													被似為基
-					$\neg$				15': Extent of boring				
16	1	1	l	- }	- 1								
1 -	1			- 1	- 1			ĺ	Borehole diameter = 6"				
17	-	1	Į.	- 1	- 1								
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18													
" -	1		ĺ										
19							1						
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25													
_	1								Well Development:				
26							1		Volume removed: 35 gallon	s		ĺ	
	1			1					1	ns per minute			
27							ĺ		Summer your, 1.5 gardi	F			
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28 _	1												
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Client: Avery Dennison

Site: Avery Dennison Fasson Roll Division Facility

35 Penn Am Drive

Boring Log

Boring Number MW-12D

1 *0f* I Sheet

Equipment: Sampling Method:

Air Rotary N/A

Quakertown, Pennsylvania

Logged By: James Miller Top of Casing Elevation: 534.71' Date Started: 2/26/99 Depth of Boring: 551

Project M	anager:	Ron Carper			Logged By:	James 1	Miller	Date Started: 2/26/99 Depth of Boring: 55'	Top of Casing Elevation: 534.71
Drilling C	ontract	or: Advance	d Drilling, Inc.		Driller: Ric	k Emp	son	Date Finished: 2/26/99 Water Level: 22'	Ground Surface Elevation: 534.93
Depth (ft)	Sample Depth (ft)	Sample Number	Blow Count	Recovery (%)	Sorting	Moisture	PID (ppm)	Classification of Material f-fine f/m-fine to medium aand (20-35%) m-medium f/c-fine to coarse ssome (20-35%) c-coarse m/c-medium to coarse 1little (10-20%) All capital letters-50%+ ttrace (1-10%)	Details
				L					Flushmount manhole
	N/A	N/A	N/A	N/A	N/A			0'-1': Gravel surface	2'x2' concrete pad
2 -								1'-7': Red brown clayey SILT	Locking expansion cap
4				J					1'-41': cement/
1 7			•						bentonite grout
6 _								7'-13': Red weathered SHALE	
1					-	•			
8 _			,				ľ		
ł				1		ì			
10				-					
						İ			
12 _					İ	ĺ	İ	LOUISIAN DE LOUISIAN DE LA COMPONICIONAL PROPERTORIES	0.5'-7: 2" diameter,
1								13'-55': Red SHALE and SILTSTONE bedrock	Schedule 40 PVC riser
14 -									
16						ļ			
-					1				
18									
-	i				i				
20					1				
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22 _					1				
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20 -					ł	[			
28									
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30									
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32 _				1					
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34									
36									
-						ĺ			
38						1			
									1'-41': cement/ bentonite grout  0.5'-7: 2" diameter, Schedule 40 PVC riser
40 _									
42									41'-43': bentonite pellet
- "								Borehole diameter = 6*	seal
44								potation distribution	A: 194
-						ļ			
46									
48									43'-55': #2 sand
50 _								l., 115	45'-55': 2" diameter,
60								Well Development:	45'-55': 2" diameter,
52 _								Volume removed: 10 gallons Estimated yield: <0.25 gallons per minute	0.020" slot PVC screen
54						ŀ		Samuel yield: 40,23 ganons per minute	
~ -					-				
56								55': Extent of boring	
-									